Ecological Research (1995) **10**, 378

Author index

Abe, N. 275
Agawa, H. 301
Ando, S. 321

Bekku, Y. 369
Birch, J. M. 351
Budiyanto, E. 75
Burke, R. L. 351

Dhaila, S. 151

Ezaki, Y. 359

Fujii, K. 75
Furukawa, A. 217, 259

Gyokusen, K. 143

Hamabata, E. 41
Hashimoto, R. 53
Hert, E. 117
Hirano, K. 75
Hiroki, S. 161

Iijima, A. 243
Ikusima, I. 291
Inoue, K. 267
Ishikawa, S-I. 259
Ito, S. 143
Itoh, A. 327
Iwaki, H. 369
Iwasaki, K. 105, 307

Kamijo, T. 235
Katsuki, T. 13
Kawabata, K. 207
Kawata, M. 301
Kimura, M. T. 87
Kitagawa, K. 199
Kobayashi, T. 339
Koizumi, H. 369
Kondo, M. 199
Kondo, T. 275
Kubota, Y. 135
Kumar, S. 217

Lee, H. S. 327
Li, S-Q. 339
Liao, R-T. 339

Maki, M. 267
Masaki, S. 1
Masters, G. J. 125
Masuda, M. 267
Matsubara, T. 161
Matsui, K. 65
Matsunaga, K. 87
Morioka, N. 199
Mukai, H. 243

Nakadai, T. 369
Nakamura, M. 281
Nakashizuka, T. 13
Nakatsubo, T. 179
Narita, K. 217
Negi, G. C. S. 151

Ogawa, H. 41
Ogino, K. 327
Ohsawa, M. 223
Oikawa, T. 259
Okutomi, K. 235
Onwona-Agyeman, S. 199
Ozaki, K. 223

Rawat, Y. S. 151

Sakuta, K. 143
Shindo, J-I. 1
Shirahata, M. 53
Singh, S. P. 151
Sugiura, N. 171
Swastika, N. 75

Takahashi, H. 87
Takeda, H. 95
Tanaka, H. 13
Tang, Y. 189
Tsuchiya, T. 291
Tsuji, N. 19

Wada, N. 217
Washitani, I. 189

Yabe, T. 291
Yamakura, T. 327
Yamamoto, S. 31
Yamamura, N. 19
Yoneda, T. 41
Yoshida, T. 87

Ecological Research (1995) **10**, 378

Author index

Abe, N. 275
Agawa, H. 301
Ando, S. 321

Bekku, Y. 369
Birch, J. M. 351
Budiyanto, E. 75
Burke, R. L. 351

Dhaila, S. 151

Ezaki, Y. 359

Fujii, K. 75
Furukawa, A. 217, 259

Gyokusen, K. 143

Hamabata, E. 41
Hashimoto, R. 53
Hert, E. 117
Hirano, K. 75
Hiroki, S. 161

Iijima, A. 243
Ikusima, I. 291
Inoue, K. 267
Ishikawa, S-I. 259
Ito, S. 143
Itoh, A. 327
Iwaki, H. 369
Iwasaki, K. 105, 307

Kamijo, T. 235
Katsuki, T. 13
Kawabata, K. 207
Kawata, M. 301
Kimura, M. T. 87
Kitagawa, K. 199
Kobayashi, T. 339
Koizumi, H. 369
Kondo, M. 199
Kondo, T. 275
Kubota, Y. 135
Kumar, S. 217

Lee, H. S. 327
Li, S-Q. 339
Liao, R-T. 339

Maki, M. 267
Masaki, S. 1
Masters, G. J. 125
Masuda, M. 267
Matsubara, T. 161
Matsui, K. 65
Matsunaga, K. 87
Morioka, N. 199
Mukai, H. 243

Nakadai, T. 369
Nakamura, M. 281
Nakashizuka, T. 13
Nakatsubo, T. 179
Narita, K. 217
Negi, G. C. S. 151

Ogawa, H. 41
Ogino, K. 327
Ohsawa, M. 223
Oikawa, T. 259
Okutomi, K. 235
Onwona-Agyeman, S. 199
Ozaki, K. 223

Rawat, Y. S. 151

Sakuta, K. 143
Shindo, J-I. 1
Shirahata, M. 53
Singh, S. P. 151
Sugiura, N. 171
Swastika, N. 75

Takahashi, H. 87
Takeda, H. 95
Tanaka, H. 13
Tang, Y. 189
Tsuchiya, T. 291
Tsuji, N. 19

Wada, N. 217
Washitani, I. 189

Yabe, T. 291
Yamakura, T. 327
Yamamoto, S. 31
Yamamura, N. 19
Yoneda, T. 41
Yoshida, T. 87

Ecological Research (1995) **10**, 379–382

Subject index

A

Abies spp.
  effect of disturbance and size structure in regeneration of 135
  forest dynamics of 31
Acer rufinerve; sex expression and fruiting habit of 65
aerial photography; analyzing forest canopy gaps using 13
Ampithoe sp.; effects of grazing by, on a tropical seagrass bed 243
antiherbivore defense; plant strategies for 19
aphids; effect of color polymorphism on mortality of 301
apparency theory; plant antiherbivory defense techniques and 19
Artemisia ordosica; ecophysiological behaviour of 339

B

beech see *Fagus crenata*
bees see Hymenoptera
Bemisia tabaci; population dynamics of 75
Betula spp.; forest dynamics of 31
biomass
  in an intertidal species of seagrass 291
  sand dune fixation and 339
birds; fluctuations in the body temperature of eleven species of 321
Blattidae see Dictyoptera
Bletilla striata; pollination ecology of 171
body temperature fluctuation in cuckoos and ten other birds 321
breeding territory; establishment and maintenance of, in the great reed warbler 359
butterflies see Lepidoptera

C

Calystegia soldanella; environmental gradients and zonal distribution on a coastal sand dune of 259
canopy
  analysis of structure of 13
  heterogeneity in light availability within 189
carbon
  dynamics in *Chamaecyparis obtusa* forest 95
  gain in cool-temperate deciduous forest saplings 53
carbon dioxide see carbon
Carex kobomugi; environmental gradients and zonal distribution on a coastal sand dune of 259
Carpinus sp.; stand structure and forest dynamics of 41, (Corrigendum) 375
Castanopsis cuspidata var. *sieboldii;* seedling establishment of, on lava and scoria 235
CC-methods; measuring soil respiration using (Technical report) 369
Chamaecyparis obtusa
  litter decomposition processes in forest of 95
  seasonal changes in branches of 199
cichlids; territorial competition in a community of 117
closed chamber techniques; measuring soil respiration using (Technical report) 369
CO_2 see carbon
coastal processes see coastal sand dune **and** seagrass
coastal sand dune
  ecophysiological behaviour of *Artemisia ordosica* and fixation of 339
  zonal flora distribution on 259
cockroach; photoperiodic control of larval development in a species of 1
coexistence; two species of *Lates* (Pices: Centropomidae) and 275
Coley, P. D.; resource-availability theory and plant antiherbivory defense techniques 19
competition
  dominance order and resting site in limpets 105
  within a cichlid community 117
coniferous forest
  effect of disturbance and size structure on regeneration process in 135
  gap characteristics and regeneration in 31
  successional change and topographical gradients in 223
contramensalism; host plant mediated interaction between two insect species and 125
copepods; ontogenetic niches of 207, (Corrigendum) 375
coppice forests; relationship between form and growth rate 41, (Corrigendum) 375
Cryptomeria japonica; seasonal changes in the branches of 199
cuckoos; fluctuations in body temperature and parasitic behaviour of 321

D

deciduous species; comparison of shoot growth phenology between evergreen species and 151
deer; variation in offspring sex ratio with maternal age in 351
diapause
  feeding, reproductive and locomotor activities in *Drosophila* spp. and 87
  photoperiodic control of, in the semivoltine cockroach *Periplaneta japonica* 1
Dictyoptera; photoperiodic control of larval development in a species of 1
Diptera; role of, in pollination of the orchid *Bletilla striata* 171
  see also *Drosophila* spp.
Dipterocarpus spp.; survival and growth of seedlings of two species of 327
dispersion; effect of availability of food on, in the alpine accentor *Prunella collaris* 281
disturbance; effect of, on regeneration processes in a sub-boreal coniferous forest 135
dominance; in *Siphonaria sirius* 105

Drosophila spp.; feeding, reproductive and locomotor activities in 87
Dryobalanops spp.; survival and growth of seedlings of two species of 327

E

ecophysiology of *Artemisia ordosica* 339
elasticity see Modulus of Elasticity
environmental gradients
successional change and topography in a coniferous forest 223
zonal distribution on a coastal sand dune and 259
Eodiaptomus japonicus; ontogenetic niches of 207, (Corrigendum) 375
evergreen species; comparison of shoot growth phenology between deciduous species and 151

F

Fagus crenata; nut production and seedling appearance in 161
feeding; diapausing *Drosophila* spp. and 87
Feeny, P. P.; apparency theory and plant antiherbivory defense techniques 19
fish see cichlids
flies see Diptera
flora; zonal distribution of, on a coastal sea dune 259
flowers; responses of bees to variations in size variation and sexual phases of 267
forests
analysis of canopy structure in 13
dynamics of subalpine, old-growth coniferous 31
effect of disturbance and size structure in a sub-boreal coniferous 135
litter decomposition processes in *Chamaecyparis obtusa* 95
relationship between coppice form and growth rate in 41, (Corrigendum) 375
sapling survival in cool-temperate deciduous 53
successional change and topographical gradients in warm-temperate mixed 223
see also coniferous forest, coppice forest, stand structure of forests, old growth forest, rainforest, sub-alpine forest and sub-boreal forest
fruit production in *Fagus crenata* 161

G

grazing; impact on seed predation by rodents (Note and Comment) 217
great reed warbler; establishment and maintenance of breeding territory of 359

H

herbivores
plant defenses against 19
host plant mediated interaction between two insect species of 125
Homoptera; population dynamics in 75
Hormomya mutabilis; factors limiting the vertical distribution of 307
Hymenoptera
responses of, to size variation and sexual phases in *Campanula* flowers 267
role in orchid pollination of *Tetralonia nipponensis* 171

I

infra-red gas analyzer; measuring oil respiration using (Technical report) 369
insects
host plant mediated interaction between two herbivore species 125
photoperiodic control of larval development of dictyopterans 1
population dynamics of 75
role in orchid pollination 171
intertidal zone
factors limiting the vertical distribution of two mytilids in 307
production and population ecology of a species of seagrass in 291
intralacustrine competition; within a cichlid community 117
introduced species; competition within a lacustrine community 117
IRGA; measuring soil respiration using (Technical report) 369
Ischaemum anthephoroides; environmental gradients and zonal distribution on a coastal sand dune of 259

K

Kummerowia striata; factors limiting distribution of, in a river floodplain 179

L

Larix leptolepis; seasonal changes in the branches of 199
Lasiurus sindicus; impact of overgrazing on seed predation by rodents of (Note and Comment) 217
Lates spp.; habitat preference, food habits and growth of juveniles of 275
leaves
carbon gain in, of saplings in a cool-temperate deciduous forest 53
growth of, in an intertidal species of seagrass 291
hydraulic resistance in *Pasania edulis* 143
packing in evergreen and deciduous oak 151
legumes; factors limiting distribution of in a river floodplain 179
Lepidoptera; role in pollination of the orchid *Bletilla striata* 171
light availability
heterogeneity in a *Miscanthus sinensis* canopy 189
sapling survival in cool-temperate deciduous forests and 53

limpets; dominance order and resting site competition in 105
locomotor activities; diapausing *Drosophila* spp. and 87
longhorn bee; role in orchid pollination 171
lacustrine communities
coexistence of two species of *Lates* in 275
competition and introduced species in 117
ontogeny and niches in 207, (Corrigendum) 375

M

Macrosiphoniella yomogicola; effect of color polymorphism on mortality of 301
Miscanthus sinensis; characteristics of light availability within the canopy of 189
MNY method; analysis of forest stand structure using 41, (Corrigendum) 375
Modulus of Elasticity; seasonal changes in living branches of three coniferous species 199
mytilids; factors limiting the vertical distribution of two species of 307

N

niches; ontogenetic, of copepods 207, (Corrigendum) 375
nitrogen dynamics in *Chamaecyparis obtusa* forest 95
nut production in *Fagus crenata* 161

O

oaks; comparison of shoot growth phenology of, in deciduous and evergreen species 151
Odocoileus virginianus; variation in offspring sex ratio with maternal age in 351
OF-methods; measuring soil respiration using (Technical report) 369
old-growth forest
gap characteristics and regeneration in 31
successional change and topographical gradients in 223
ontogeny; lacustrine niches and 207, (Corrigendum) 375
open flow methods; measuring soil respiration using 369 (Technical report)
orchids; pollination ecology of a species of 171

P

parasitism in cuckoo broods 321
Pasania edulis; hydraulic resistance in 143
Periplaneta japonica; photoperiodic control in larval development of 1
Persea thunbergii; seedling establishment of, on lava and scoria 235
petioles; hydraulic resistance in *Pasania edulis* 143
photoperiodism and control of larval development in the semivoltine cockroach *Periplaneta japonica* 1
see also light availability
Phyllospadix iwatensis; population ecology of 291
Picea glehnii; effect of disturbance and size structure in regeneration of 135
Picea spp.; forest dynamics of 31, 135
plankton; ontogenetic niches of 207, (Corrigendum) 375
pollination
in *Bletilla crenata* 171
responses of bees to variations in flower size and sexual phase 267
polymorphism; effect of color, on mortality in a species of aphid 301
population ecology
dynamics of the whitefly, *Bemisia tabaci* 75
of an intertidal species of seagrass 291
predation of seeds by rodents, the impact of overgrazing on (Note and Comment) 217
production of an intertidal species of seagrass 291
Prunella collaris; effect of availability of food on female dispersion of 281

Q

Quercus mongolica var. *grosseserrata*; sapling survival of 53
Quercus serrata
light requirements for seedling growth of 189
stand structure and forests dynamics of 41, (Corrigendum) 375

R

rainforest; survivorship and growth of dipterocarp seedlings in 327
reproductive activities
diapausing *Drosophila* spp. and 87
effect of resource availability on, in the alpine accentor *Prunella collaris* 281
resource-availability theory; plant antiherbivory defense techniques and 19
resources
allocation and sex expression in *Acer rufinerve* 65
availability and population dynamics in the whitefly *Bemisia tabaci* 75
availability and female dispersion in the alpine accentor *Prunella collaris* 281
Rhizobium sp.; effect of, on distribution of an annual legume in a river floodplain 179
rodents; impact of overgrazing on seed predation by (Note and Comment) 217

S

sapling survival in cool-temperate deciduous forests 53
seagrass
effects on, of grazing by a gammaridean Amphipoda 243
production and population ecology of an intertidal species of 291
seasonal adaptation photoperiodism and larval development of the semivoltine cockroach *Periplaneta japonica* 1
seasonal change in living branches of three coniferous species 199

seedlings
appearance and survival of, in *Fagus crenata* 161
hydraulic resistance in *Pasania edulis* 143
light requirements for *Quercus serrata* 189
seed predation by rodents, impact of overgrazing on (Note and Comment) 217
selection effect of color polymorphism on mortality in a species of aphid 301
Septifer virgatus; factors limiting the vertical distribution of 307
sex
expression of, and resource allocation 65
ratios in *Acer rufinerve* 65
shoots; comparison of growth phenology of, in evergreen and deciduous oaks 151
Siphonaria sirius; dominance order and resting site competition in 105
site fidelity in *Siphonaria sirius* 105
soil
effect of, on distribution of an annual legume in a river floodplain 179
a method for measuring respiration of (Technical report) 369
sprouts; hydraulic resistance in *Pasania edulis* 143
stand structure of forests
and dynamics of *Carpinus* sp. and *Quercus serrata* 41, (Corrigendum) 375
effect of disturbance and size structure in sub-boreal coniferous 135
gap characteristics and regeneration in a sub-alpine environment and 31
MNY analysis of 41, (Corrigendum) 375
sub-alpine forest; gap characteristics and regeneration in 31
sub-boreal forest; effect of disturbance and size structure on regeneration process in 135
succession
impact of overgrazing on seed predation by rodents and the effect on (Note and Comment) 217
seedling establishment of climax species on volcanic substrata 235
topographical gradients in warm-temperate mixed forests and 223
Syringodium isoetifolium; effects on, of grazing by a gammaridean Amphipoda 243

T

Tetralonia nipponensis; role of, in orchid pollination 171
Thujopsis dolobrata var. *hondai*; sapling survival of 53
topographical gradients; successional change in warm-temperate mixed forests and 223
trees
hydraulic resistance in *Pasania edulis* 143
seasonal changes in the branches of three coniferous 199
tropical rainforest see rainforest
Tsuga spp.; forest dynamics of 31

V

volcanic substrata; seedling establishment of climax species on 235

W

warm-temperate mixed forests; topographical gradients and successional change in 223
water stress in *Pasania edulis* 143
White-tailed deer; variation in offspring sex ratio with maternal age in 351
whitefly; population dynamics in a species of 75

Z

zonation in contiguous mussel beds of *Septifer virgatus* and *Hormomya mutabilis* 307